PD NO: 10010155-1 **Inv:** David D. Bohn

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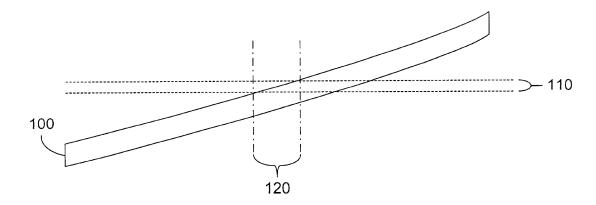


FIG. 1

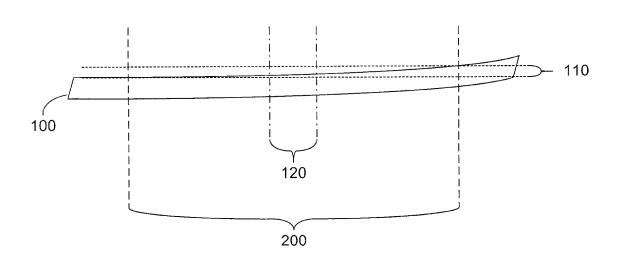
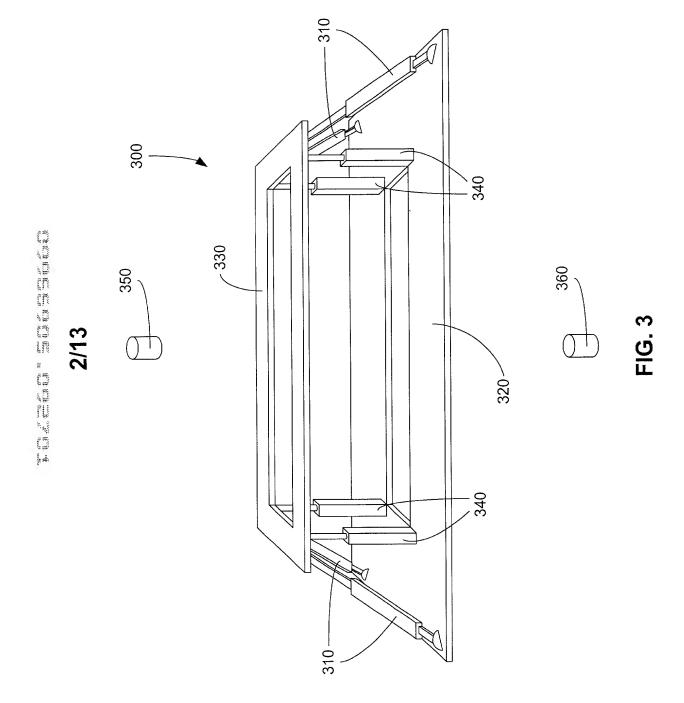


FIG. 2

PD NO: 10010155-1 Inv: David D. Bohn Title: Positioning Mechanism Providing Precision 2-Axis Rotation, 1-Axis...



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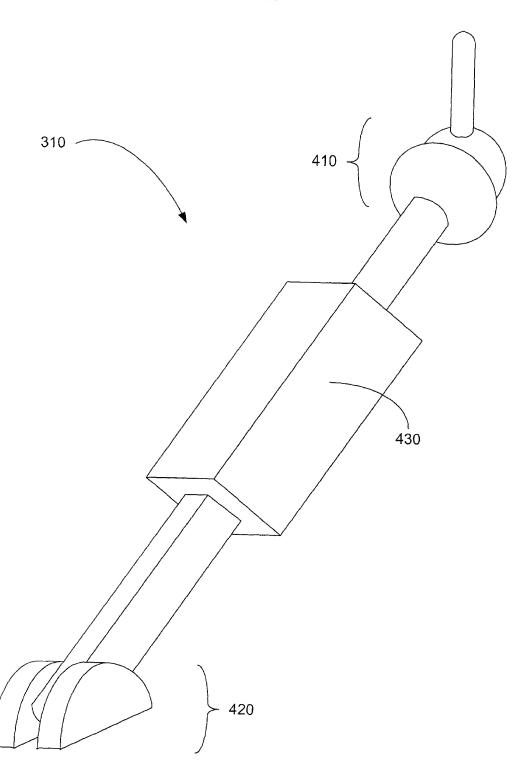
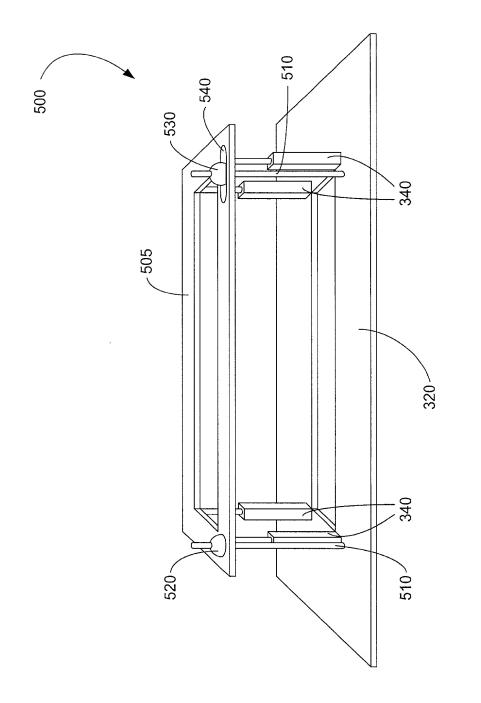


FIG. 4

PD NO: 10010155-1 Inv: David D. Bohn Title: Positioning Mechanism Providing Precision 2-Axis Rotation, 1-Axis...



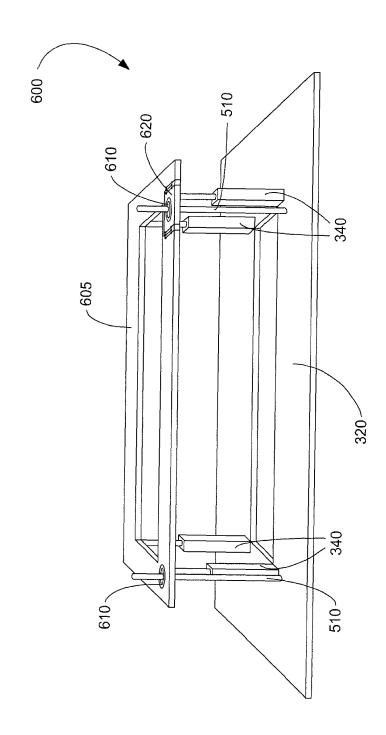


FIG. 6

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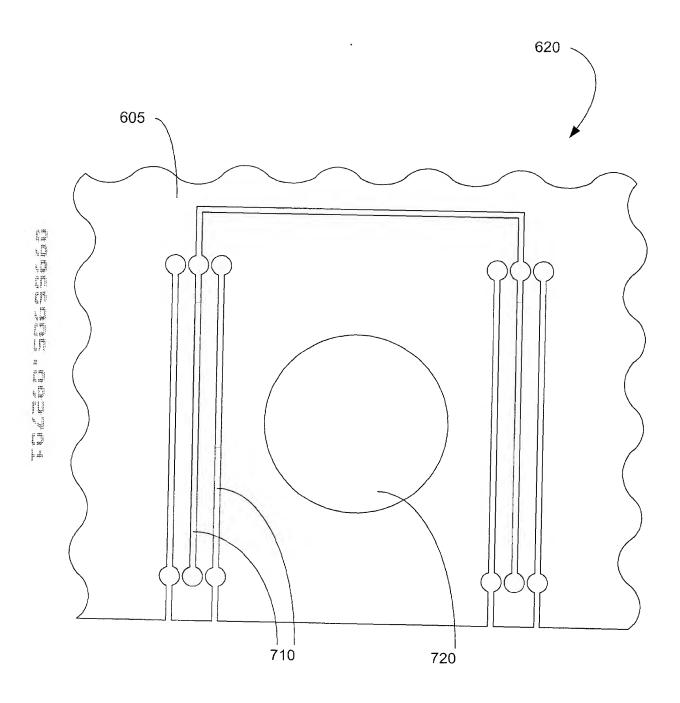


FIG. 7

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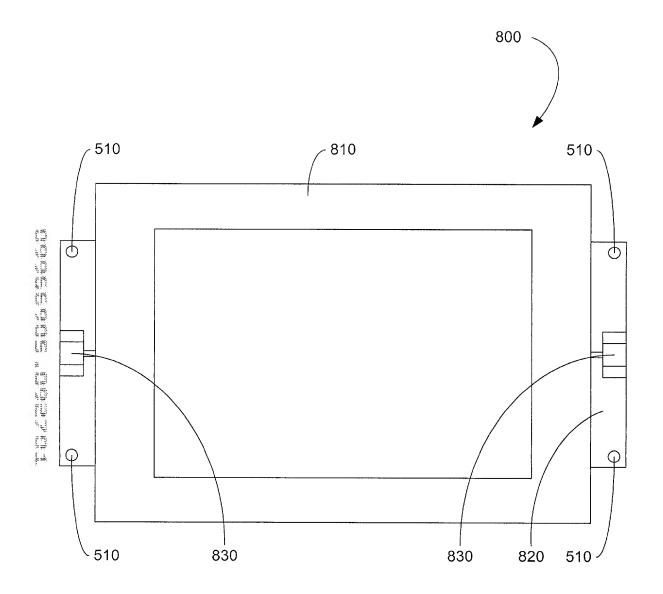


FIG. 8

Title: Positioning Mechanism Providing Precision 2-Axis Rotation, 1-Axis...

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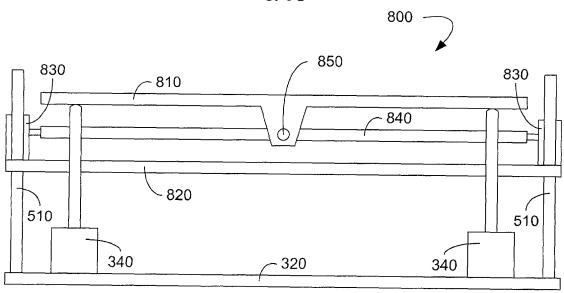


FIG. 9

The first state of the first sta

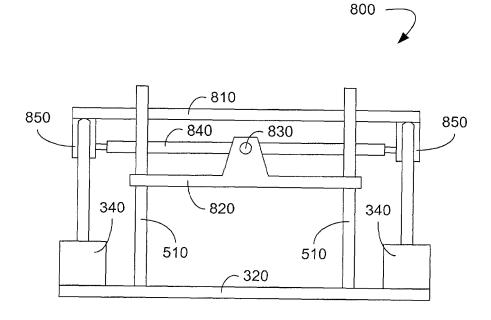


FIG. 10

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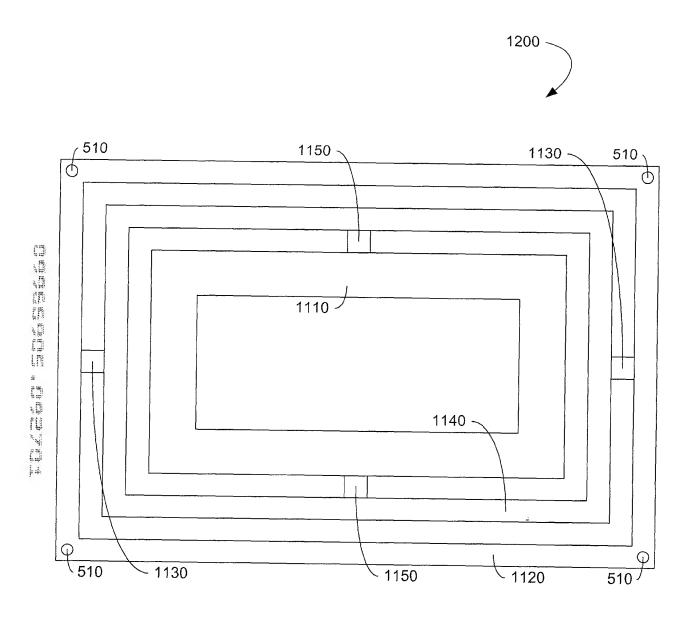


FIG. 11

Title: Positioning Mechanism Providing Precision 2-Axis Rotation, 1-Axis...

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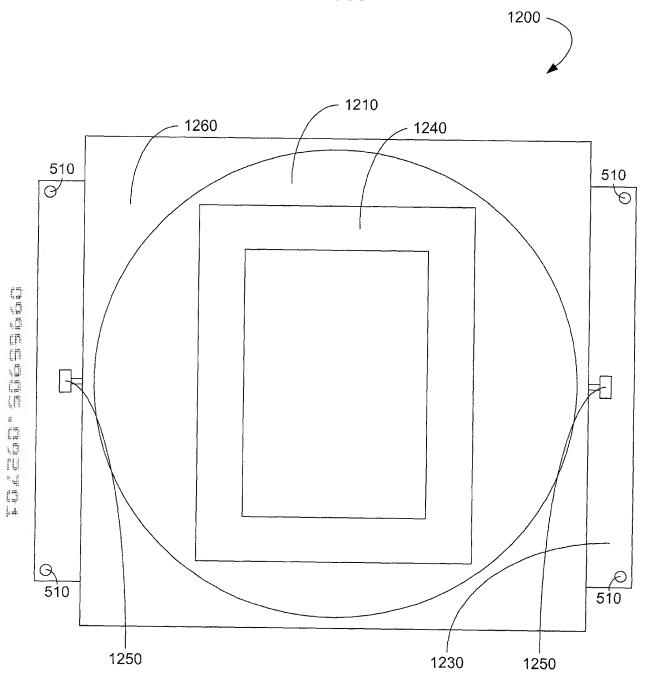


FIG. 12

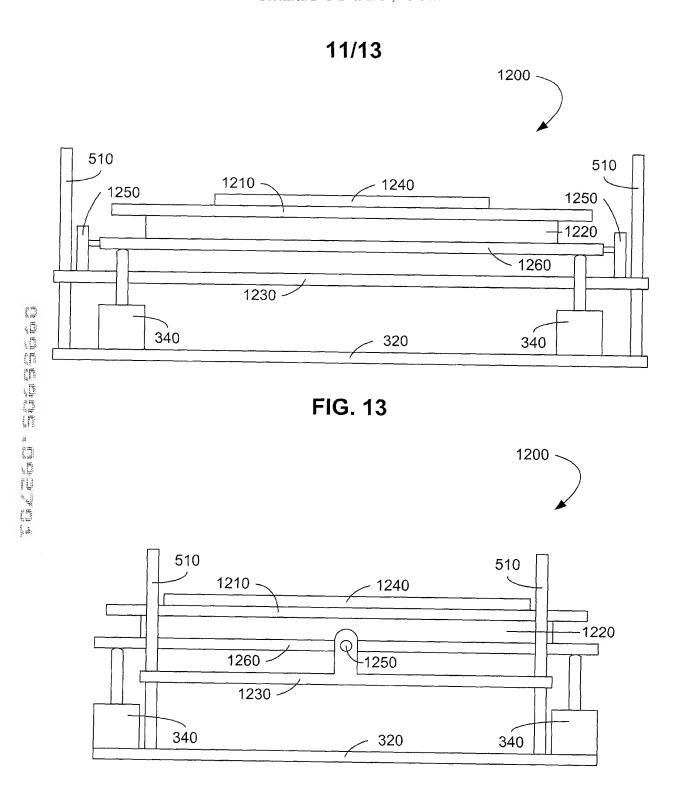


FIG. 14

Title: Positioning Mechanism Providing Precision 2-Axis Rotation, 1-Axis...

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1500

1510 -

GUIDING THE MOTION OF THE OBJECT BY PERMITTING THE OBJECT TO PIVOT ABOUT FIRST AND SECOND HORIZONTAL AXES AND TO TRANSLATE ALONG A VERTICAL AXIS, WHILE PREVENTING THE OBJECT FROM SUBSTANTIAL HORIZONTAL TRANSLATIONAL MOVEMENT AND SUBSTANTIAL ROTATIONAL MOVEMENT ABOUT THE VERTICAL AXIS

1520

TRANSLATING AT LEAST THREE DISTINCT AREAS OF THE OBJECT SUBSTANTIALLY ALONG THE VERTICAL AXIS, THE THREE AREAS BEING POSITIONED SO THAT THE OBJECT MAY ALSO BE ROTATED ABOUT THE FIRST AND SECOND HORIZONTAL AXES

FIG. 15

Title: Positioning Mechanism Providing Precision 2-Axis Rotation, 1-Axis...

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1600 ~

1610

GUIDING THE MOTION OF THE OBJECT BY PERMITTING THE OBJECT TO PIVOT ABOUT A HORIZONTAL AXIS, TO ROTATE ABOUT A VERTICAL AXIS, AND TO TRANSLATE ALONG THE VERTICAL AXIS, WHILE PREVENTING THE OBJECT FROM SUBSTANTIAL TRANSLATIONAL MOVEMENT IN THE HORIZONTAL PLANE AND SUBSTANTIAL OR ROTATIONAL MOVEMENT ABOUT AN AXIS ORTHOGONAL TO BOTH THE HORIZONTAL AND VERTICAL AXES

1620

ROTATING THE OBJECT ABOUT THE VERTICAL AXIS

1630

TRANSLATING AT LEAST TWO DISTINCT AREAS OF THE OBJECT THE VERTICAL AXIS, THE TWO AREAS RESIDING ON OPPOSITE SIDES OF THE HORIZONTAL AXIS